Performance Data Sheet

AEA4440YXD

General Information

Model	AEA4440YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	3240	2900	2610	2360	2120	1880	1620
	Watts	437	438	441	446	454	465	477
	Amps	3.09	3.08	3.09	3.11	3.14	3.17	3.19
	Lb/h	42.4	39.4	37.2	35.3	33.5	31.6	29.3
25	Btu/h	3640	3280	2960	2680	2420	2150	1880
	Watts	447	452	459	468	479	491	505
	Amps	3.13	3.13	3.14	3.18	3.21	3.25	3.27
	Lb/h	47.7	44.6	42.3	40.3	38.4	36.4	34.0
30	Btu/h	4110	3710	3370	3050	2760	2460	2160
	Watts	460	470	481	493	507	522	537
	Amps	3.18	3.18	3.21	3.25	3.29	3.33	3.36
	Lb/h	53.9	50.7	48.2	46.1	44.0	41.9	39.3
35	Btu/h	4640	4200	3820	3470	3140	2810	2470
	Watts	475	490	505	521	537	554	572
	Amps	3.24	3.25	3.28	3.32	3.37	3.42	3.46
	Lb/h	61.0	57.7	54.9	52.6	50.4	48.1	45.3
40	Btu/h	5230	4750	4320	3930	3560	3200	2820
	Watts	491	511	530	549	569	588	607
	Amps	3.30	3.31	3.35	3.40	3.46	3.51	3.55
	Lb/h	69.1	65.4	62.5	59.9	57.5	54.9	51.9
45	Btu/h	5870	5350	4870	4440	4020	3610	3190
	Watts	506	530	553	576	599	620	641
	Amps	3.35	3.38	3.42	3.48	3.54	3.60	3.65
	Lb/h	78.0	74.1	70.8	68.0	65.3	62.4	59.2
50	Btu/h	6570	5990	5470	4980	4510	4050	3580
	Watts	517	546	574	600	626	649	672
	Amps	3.41	3.44	3.49	3.55	3.62	3.69	3.74
	Lb/h	87.7	83.5	80.0	76.8	73.8	70.6	67.0
55	Btu/h	7320	6680	6100	5560	5040	4520	4000
	Watts	524	558	590	620	648	674	699
	Amps	3.46	3.49	3.55	3.62	3.69	3.76	3.82
	Lb/h	98.3	93.8	89.8	86.3	82.9	79.4	75.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.002585E+03	7.910572E+02	5.175733E+00	1.108865E+02
C2	3.250268E+01	-1.715220E+01	-1.829633E-02	5.326776E-02
C3	-1.288216E+02	-6.084230E+00	-5.647594E-02	-1.957758E+00
C4	2.308655E+00	2.398386E-01	4.857443E-04	2.668116E-02
C5	-2.559289E-01	1.919746E-01	1.537686E-04	1.834545E-03
C6	9.301043E-01	2.659253E-02	4.857623E-04	1.555516E-02
C7	-3.098253E-03	-2.293943E-03	-4.129269E-06	-1.926786E-05
C8	-1.004831E-02	1.024723E-04	-9.949642E-08	-8.558957E-05
C9	8.981194E-04	-6.166695E-04	-9.535853E-08	-3.503313E-07
C10	-2.621972E-03	-6.991238E-06	-1.378286E-06	-4.525489E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature